



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

NCERT Exemplar Questions +2 (BIOTECHNOLOGY AND ITS APPLICATIONS)

Mcqs

1. Bt-cotton is not :

A. a GM plant

B. insect resistant

C. a bacterial gene expressing system

D. resistant to all pesticides

Answer: d



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2. C-peptide of human insulin is :

A. a part of mature insulin molecule

B. responsible for formation of disulphide bridges

C. removed during maturation of pro-insulin to insulin

D. responsible for its biological activity

Answer: c



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3. GEAC stands for :

A. Genome Engineering Action Com'mit- tee

B. Ground Environment Action Committee

C. Genetic Engineering Approval Commit-
tee

D. Genetic and Environment Approval Com-
mittee

Answer: c



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4. The alpha-1 antitrypsin is :

A. an antacid

B. an enzyme

C. used to treat arthritis

D. used to treat emphysema

Answer: d



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5. A probe which is a molecule used to locate specific sequences in a mixture of DNA or RNA molecules could be :

- A. a single stranded RNA
- B. a single stranded DNA
- C. either RNA or DNA
- D. can be ss DNA but not ss RNA

Answer: c



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6. Choose the correct option regarding

Retrovirus :

A. An RNA virus that can synthesise DNA

during infection

B. A DNA virus that can synthesise RNA

during infection

C. A ssDNA virus

D. A dsRNA virus

Answer: a



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7. The site of production of ADA in the body is

A. bone marrow

B. lymphocytes

C. blood plasma

D. monocytes

Answer: b



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8. A protoxin is

A. a primitive toxin

B. a denatured toxin

C. toxin produced by protozoa

D. inactive toxin

Answer: d



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9. Pathophysiology is the :

- A. study of physiology of pathogen
- B. study of normal physiology of host
- C. study of altered physiology of host
- D. none of the above

Answer: c



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10. The trigger for activation of toxin of *Bacillus thuringiensis* is :

A. acidic pH of stomach

B. high temperature

C. alkaline pH of gut

D. mechanical action in the insect gut

Answer: c



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11. Golden rice is

- A. a variety of rice grown along the yellow river in China
- B. long stored rice having yellow colour tint
- C. a transgenic rice having gene for carotene
- D. wild variety of rice with yellow coloured grains

Answer: c



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12. In RNAi, genes are silenced using :

A. ss DNA

B. ds DNA

C. ds RNA

D. ss RNA

Answer: c



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13. The first clinical gene therapy was done for the treatment of :

A. AIDS

B. Cancer

C. Cystic fibrosis

D. SCID (Severe Combined Immuno Deficiency resulting from deficiency of ADA)

Answer: d



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14. ADA is an enzyme which is deficient in a genetic disorder SCID. What is the full form of ADA?

- A. Adenosine deoxy aminase
- B. Adenosine deaminase
- C. Aspartate deaminase
- D. Arginine deaminase

Answer: b



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15. Silencing of a gene could be achieved through the use of

A. short interfering RNA (RNAi)

B. antisense RNA

C. by both

D. none of the above

Answer: c



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